

Appendix table 4-40.

International R&D expenditures and R&D as percentage of GDP, by selected country and for all OECD countries: 1981–99

Year	United States	Japan ^a	Germany ^b	France	United Kingdom	Italy	Canada	Russian Federation	Total OECD
Total R&D expenditures (billions of constant 1996 U.S. dollars^c)									
1981	115.9	36.5	25.3	17.6	18.3	7.3	5.6	NA	250.9
1982	122.0	39.2	26.0	18.8	NA	7.5	6.0	NA	262.1
1983	130.8	42.6	26.6	19.5	17.9	8.1	6.1	NA	277.0
1984	143.3	46.2	27.6	20.7	NA	8.9	6.7	NA	299.6
1985	155.8	51.4	30.5	21.7	19.6	10.2	7.3	NA	326.5
1986	159.8	52.4	31.6	22.0	20.7	10.6	7.7	NA	337.3
1987	162.8	56.2	33.4	23.0	21.1	11.5	7.8	NA	350.0
1988	167.0	60.8	34.7	24.1	21.7	12.2	8.0	NA	364.4
1989	170.4	66.8	36.3	25.8	22.5	12.9	8.2	NA	380.5
1990	175.8	72.7	36.9	27.5	23.0	13.8	8.7	NA	398.3
1991	179.5	74.7	39.6	27.9	21.3	13.5	8.9	21.0	412.6
1992	180.1	75.2	40.0	28.7	22.4	13.4	9.2	9.6	420.5
1993	176.2	73.5	38.5	28.1	22.6	12.2	9.8	9.2	415.4
1994	176.2	72.8	38.6	27.6	22.7	11.8	10.5	8.9	418.8
1995	187.2	80.2	40.2	28.3	22.1	11.7	11.3	7.8	449.4
1996	197.3	84.7	39.9	27.8	22.5	12.1	11.1	8.8	468.0
1997	208.3	87.2	41.0	26.6	22.2	11.7	11.5	9.6	484.9
1998	219.8	88.9	42.2	26.9	22.7	12.2	12.0	9.0	502.0
1999	233.0	88.8	44.1	27.6	23.6	12.7	12.2	NA	NA
R&D expenditures as percentage of GDP									
1981	2.31	2.13	2.47	1.93	2.38	0.88	1.24	NA	1.97
1982	2.48	2.22	2.56	2.02	NA	0.90	1.39	NA	2.07
1983	2.55	2.35	2.56	2.06	2.20	0.95	1.36	NA	2.11
1984	2.60	2.43	2.56	2.16	NA	1.01	1.40	NA	2.17
1985	2.72	2.58	2.75	2.22	2.24	1.12	1.44	NA	2.28
1986	2.70	2.55	2.77	2.21	2.26	1.13	1.48	NA	2.29
1987	2.66	2.62	2.87	2.24	2.20	1.19	1.43	NA	2.29
1988	2.62	2.66	2.86	2.24	2.15	1.22	1.41	NA	2.28
1989	2.59	2.77	2.86	2.29	2.16	1.24	1.40	NA	2.29
1990	2.62	2.85	2.75	2.37	2.16	1.29	1.47	2.03	2.32
1991	2.69	2.82	2.53	2.37	2.08	1.23	1.53	1.43	2.24
1992	2.62	2.76	2.41	2.38	2.09	1.18	1.58	0.74	2.20
1993	2.49	2.68	2.35	2.40	2.12	1.13	1.63	0.77	2.15
1994	2.40	2.63	2.26	2.34	2.07	1.05	1.67	0.84	2.10
1995	2.48	2.77	2.26	2.31	1.98	1.00	1.64	0.79	2.11
1996	2.53	2.80	2.26	2.30	1.91	1.01	1.60	0.90	2.13
1997	2.55	2.88	2.29	2.22	1.83	0.99	1.61	0.99	2.16
1998	2.58	3.01	2.31	2.18	1.83	1.02	1.62	0.93	2.18
1999	2.63	3.01	2.38	2.17	1.87	1.04	1.58	1.06	NA
Total R&D expenditures (billions of constant 1995 units of national currency^d)									
1981	113.7	6,690	57.4	112.5	11.9	11,875	7.1	NA	NA
1982	119.8	7,184	58.9	120.8	NA	12,298	7.7	NA	NA
1983	128.4	7,771	59.8	125.4	11.6	13,104	7.7	NA	NA
1984	140.7	8,350	61.4	133.1	NA	14,281	8.4	NA	NA
1985	152.9	9,266	67.4	139.0	12.6	16,353	9.2	NA	NA
1986	156.9	9,423	69.5	141.4	13.2	16,907	9.6	NA	NA
1987	159.8	10,073	73.1	147.3	13.4	18,277	9.7	NA	NA
1988	163.9	10,845	75.6	154.0	13.8	19,438	10.0	NA	NA
1989	167.3	11,853	78.4	164.1	14.1	20,348	10.2	NA	NA
1990	172.5	12,843	79.4	174.6	14.2	21,597	10.8	NA	NA
1991	176.2	13,167	84.7	175.9	13.5	20,851	11.0	50,696	NA
1992	176.7	13,020	82.4	179.2	13.6	20,284	11.4	22,426	NA
1993	173.0	12,677	79.5	179.6	14.1	19,143	12.0	21,247	NA

See explanatory notes, if any, and SOURCE at end of table.

Appendix table 4-40.

International R&D expenditures and R&D as percentage of GDP, by selected country and for all OECD countries: 1981–99

Year	United States	Japan ^a	Germany ^b	France	United Kingdom	Italy	Canada	Russian Federation	Total OECD
Total R&D expenditures (billions of constant 1995 units of national currency^d) — continued									
1994	172.9	12,547	78.2	178.5	14.4	18,263	12.9	20,377	NA
1995	183.6	13,369	79.5	179.1	14.2	17,864	13.1	17,009	NA
1996	193.5	14,228	80.1	180.0	14.0	18,194	12.9	19,394	NA
1997	204.6	14,845	82.3	177.2	13.9	18,157	13.5	21,169	NA
1998	216.0	15,144	84.8	179.3	14.2	19,000	14.1	19,778	NA
1999	229.2	15,141	88.7	183.6	14.9	19,763	14.4	NA	NA

GDP = gross domestic product; NA = not available or not applicable

^aData on Japanese R&D in 1996 and later years may not be consistent with data in earlier years because of changes in methodology.^bData for 1981–90 are for West Germany.^cConversions of foreign currencies to U.S. dollars are calculated with OECD purchasing power parity exchange rates. Constant 1996 dollars are based on the U.S. GDP implicit price deflator.^dConstant foreign currencies are based on deflation with each country's GDP implicit price deflator.

SOURCES: Organisation for Economic Co-operation and Development (OECD), Main Science and Technology Indicators database (Paris, November 2000); Russian Centre Science Research and Statistics and National Science Foundation, Division of Science Resources Statistics (NSF/SRS); and other national sources.